

Erotylidae from Chejudo Island

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Erotylidae from Chejudo Island ^{1), 2)}

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Abstract. Two erotylid species are newly recorded from this island.

EROTYLIDAE

Dacninae

Episcapha Lacordaire, 1842

1. *Episcapha* (*Episcapha*) *flavofasciata flavofasciata* (Reitter, 1879)

(Fig. 1)

Megalodacne flavofasciata Reitter, Deutsche Ent. Zeitschr., XXIII, 1879, p. 223 (E. Siberia). — Heyden, Cat. Col. Sibiiien, 1880-1881, p. 214 (*Megalodacne*); id., Cat. Col. Sibiiien, Nachtr. II, 1893, p. 55 (ditto).

Episcapha flavofasciata Reitter, Verh. Naturf. Ver. Brünn, XXVI, 1887, p. 5 (*Episcapha*) (Siberia). — Marseul, L'Abeille, XXVI, 1889, p. 150, (160) (ditto). — Khunt, Gen. Ins., Wytsman, fasc. 88, 1909, p. 110 (*Episcapha*, etc.); id., Col. Cat., Junk, pars 34, 1911, p. 76 (ditto). — Jacobson, Zhuki Rossicae, XI, 1915, p. 935. — Heller, Arch. f. Naturg., LXXXIV, A, (8), 1918(1920), p. 75 [*Episcapha* (*Psiloscaptha*)]. — Winkler, Cat. Col. Reg. Paiaearcticae, pars 6, 1926, p. 718 (*Episcapha*). — Araki, Trans. Kansai Ent. Soc., Hyogo, Japan, XIV, 1949, p. 5 (ditto)@. Quelpart & Siberia). Chûjô, Fauna Japonica, Ins.-Col.-Erotyl., 1969, p. (96), 107-110 [*Episcapha*

1) Results from the Korea-Japan Co-operative Science Program on "The Evolution and Biogeography of the Insects in the East Asia". No. 3.

2) Contribution from the Hikosan Biological Laboratory, Faculty of Agriculture, Kyushu University, Hikosan (Ser. 4, No. 5).

- (*Episcapha*) *flavofasciata flavofasciata* (Reitter)]. — Sasaji, *Seibutsu-Kenkyû*, Fukui, Japan, XIII, 1969, p. 14 (*Episcapha*). — Iablokoff-Khnzorian, *Acta Zool. Cracoviensia*, XX, 1975, p. (217), 218 (ditto).
- = *hamata* Lewis, *Ann. Mag. Nat. Hist.*, [5], IV, 1879, p. 465 (*Episcapha*, etc.); id., *Cat. Col. Japanese Archipel.*, 1879, p. 30; id., *Ent. Monthl. Mag.*, XX, 1883, p. 140. — Schonfeldt, *Cat. Col. Japan.*, 1887, p. 158. — Lewis, *Ann. Mag. Nat. Hist.*, [5], XX, 1887, p. [55], 60. — Schönfeldt, *Cat. Col. Japan*, Nachtr. II, 1891, p. 271. — Kuhnt, *Gen. Ins.*, Wytsman, fasc. 88, 1909, p. 110; id., *Col. Cat.*, Junk, pars 34, 1911, p. 76. — Jacobson, *Zhuki Rossicae*, XI, 1915, p. 935. — Heller, *Arch. f. Naturg.*, LXXXIV, A, (8), 1918(1920), p. 75 [*Episcapha (Psiloscapa)*]. — Winkler, *Cat. Col. Reg. Palaearcticae*, pars 6, 1926, p. 718 (*Episcapha*, etc.). — Miwa, *Trans. Nat. Hist. Soc. Formosa*, XIX, 1929, p. [127]. — Chûjô, *Fauna Nipponica*, X, fasc. 8, (5), *Ins.-Col.-Erotyl.*, 1936, p. (135), 139-140, [175]. — Mader, *Mitt. Münchner Ent. Ges. (e.V.)*, XXXI, 1941, p. 932 (China: Fukien). — Araki, *Trans. Kansai Ent. Soc.*, Hyogo, Japan, XIV, 1949, p. 5. — Chûjô, *Fauna Japonica*, *Ins.-Col.-Erotyl.*, 1969, p. [108], 110 [= *Episcapha (Episcapha) flavofasciata flavofasciata* (Reitter)]. — Iablokoff-Khnzorian, *Acta Zool. Cracoviensia*, XX, 1975, p. 218 [= *Episcapha flavofasciata* (Reitter)].
- Spec. exam.:** 7 errs., Yongshil, Mt. Hallasan, Chejudo, Korea, 20. v. 1990, M. T. Chûjô leg.; 12 exs., Yongshil, Mt. Hallasan, Chejudo, Korea, 27. vii. 1990, M. T. Chûjô leg.
- Gen. distr.:** Korea (incl. Chejudo Is.), China, E. Siberia & Japan (Hokkaido).

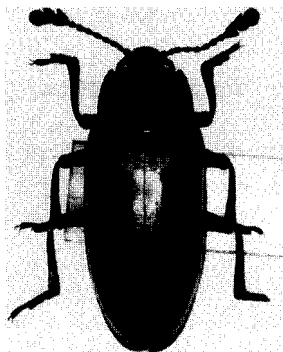


Fig. 1. *Episcapha (E.) flavofasciata flavofasciata* (Reitter).

Microsternus Lewis, 1879

2. *Microsternus tokioensis* Nakane, 1961*

(Fig. 2A-G)

Microsternus tricolor tokioensis Nakane, *Fragm. Col.*, Tokyo, 1961, pars 1, p. 5; id., *Iconogr. Ins. Japoni-*

* Asterisks show the species which has hitherto been unrecorded from this island.

corum, II, 1963, p. 206, Pl. 103, fig. 13; — Chûjô, Fauna Japonica, Ins.-Col.-Erotyl., 1969, p. 70, 71.

Microsternus tokioensis: Nakane, Rep. Fac. Sci. Kagoshima Univ. (Earth Sci. & Biol.), Japan, (14), 1981, pp. 45-46, f. c.

= *tricolor* Lewis: Nakane, Konchû-Sekai, Gifu, Japan, XLI, (481), 1937, p. 356. — Chûjô, Nippon-no-Konchû, Konchû-Dôkôkai, Ent. Lab. Tokyo Agr. Univ., Japan, III, 1940, p. 83. — Nakane, Shin-Konchû, Tokyo, Japan, XI, 1958, p. 60, f. 10.

Spec. exam.: 6 exs., Orimok, Mt. Hallasan, Chejudo, Korea, 27. vii. 1990, M. T. Chûjô leg.

Gen. distr.: Korea (Chejudo Is.) & Japan (Tokyo & Kyushu).

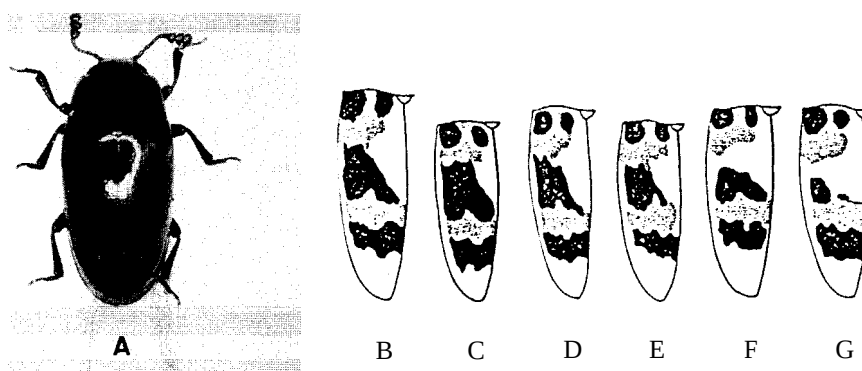


Fig. 2 *Microsternus tokioensis* Nakane. A: Dorsal view. B-G: Individual variation of elytral markings

Triplacinac

Cyrtotriplax Crotch, 1873

3. *Cyrtotriplax (Cyrtotriplax) cenchris* Lewis, 1887*

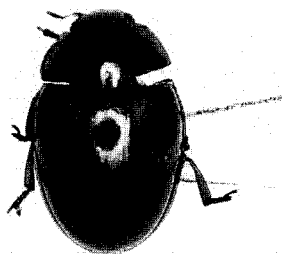
(Fig. 3)

Cyrtotriplax cenchris Lewis, Ann. Mag. Nat. Hist., [5], XX, 1887, pp. 64-65 (Japan). — Schönfeldt, Cat. Col. Japan, Nachtr. II, 1891, p. 271 (*Cyrtotriplax*). — Kuhnt, Gen. Ins., Wytzman, fasc. 88, 1909, p. 79 (*Tritoma*; etc.); id., Col. Cat., Junk, pars 34, 1911, p. 56. — Jacobson, Zhuki Rossicae, XI, 1915, p. 933. — Winkler, Cat. Col. Reg. Palaearcticae, pars 6, 1926, p. 715. — Miwa, Trans. Nat. Hist. Soc. Formosa, XIX, 1929, p. [126]. — Chûjô, Fauna Nipponica, X, fasc. 8, (5), Ins.-Col.-Erotyl., 1936, p. (87), 107-108, [171], f. 63. — Naruse, Insect Magazine, Tokyo, (41), 1958, p. 5; id., Hiiakura, Mie-KonchQ-Danwakai, Tsu, Japan, II, (22), 1958, p. 113. — Nakane, Shin-Konchû, Tokyo, Japan, XI, (7), 1958, p. (62), f. 24; id. op. cit., XI, (10), 1958, p. 58; id., Sci. Rep. Kyoto Pref. Univ., Japan, III, (1), 1959, p. 71. — Tam. et al., Akitu, Kyoto Ent. Soc., Japan, VIII, (4), 1959, p. 1. — Ohmachi et al., Bull. Mie Univ. Forests, Tsy Japan, (4), 1960, p. 25. — M. T. Chûjô, Miiado, Miscell. Ent. Japan, I, 1961, pp. 9-10, f. 1. — Nakane, Iconogr. Ins. Japonico-rum, Tokyo, II, 1963, p. 205, t. 103-f.6 (nota). — Yamashita et al., Research Data, Mie Univ.

Forests, Tsu, Japan, (1), 1968, p. 67. — Sasaji, The Life Study, Fukui, Japan, XIII, (1/2), 1969, p. 14. — Chūjō, Fauna Japonica, *Ins.-Col.-Erotyl.*, 1969, p. (227), 241-242, t.16-f.3 (*Cyrtotriplax* s. str.). — Okadome, *Ins.-Fauna of Is. Yakushima*, Publ. Yaku-chō Board of Education, Kagoshima Pref., Japan, 1973, p. 129 (ditto). — Iablokoff-Khnzorian, *Acta Zool. Cracoviensia*, XX, 1975, p. (238), 242, t.18-f.5 (*Tritoma cenchrus*). — Sasaji, Tsushima-no-Seibutsu, Nagasaki-ken Biol. Soc., Japan, 1976, p. 668 (*Cyrtotriplax* s. str.). — Kido, *Kita-Kyushu-no-Konchū*, Kokura, Japan, XXIV, (2), 1977, p. 55 (*Tritoma cenchris*, etc.); id., op. cit., XXVI, (1), 1979, p. 27 & 29. — Takakura et Kido, *Kita-Kyushu-no-Konchū*, Kokura, Japan, XXVII, (2), 1980, p. 55. — Nakane, Satsuma, *Kagoshima-Konchū-Dōkōkai*, Japan, XXXI, (88), 1982, p. 115; id., *Conserv. Rep. of Is. Yakushima Wild Area*, Kyushu, Japan, (Natural Conserv. Bureau, Environm. Agency of Japan), 1984, p. 615. — Kido, *Kita-Kyushu-no-Konchū*, Kokura, Japan, XXXI, (2), 1984, p. 110. — Narukawa, Hirakura, *Mie-Konchū-Danwakai*, Tsu, Japan, XXXI, (4), 1987, p. 58. — Narukawa et Otake, Hirakura, *Mie-Konchū-Danwakai*, Tsu, Japan, XXXI, (6), 1987, p. 92. — Yamawaki, *Kita-Kyushu-no-Konchū*, Kokura, Japan, XXXVI, (2), 1989, p. 139 (*Tritoma cenchris*). — Takakura, *Col. Fauna of Fukuoka Pref.*, Japan, 1989, p. 477 (ditto).

Spec. exam.: 1 ex., Yongshil, Mt. Hallasan, Chejudo, Korea, 24. vii. 1990, M. T. Chūjō leg.

Gen. distr.: Korea (Chejudo Island) & Japan (Honshu, Kyushu, Yakushima Is. & Tsushima Is.).



Fii 3. *Cyrtotriplax* (C.) *cenchris* Lewis.

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References

- Araki, H., 1949, A list of the genus *Episcapha*, with descriptions of two new subspecies (Col. Erotylidae). *Trans. Kansai Ent. Soc., Japan*, 14 (2): 4-6, Figs. 1-2.
- 1950, A revision of the genus *Episcapha* Lacordaire (Coleoptera, Erotyhdae). *Bull. Takarazuka Insectarium*, (65): 1-6, Figs. 1-5.
- Cho, P. S., 1963. Insects of Querpert Island (Cheju-do). *Hum.Sci. Korea Univ.*, 6: 159-242.
- Chûjô, M., 1936. Fauna Nipponica, X, fasc. 8, (5), Ins. -Col. -Erotyl., 193pp., Sanseido Co. Ltd., Tokyo, Japan.
- 1969. Fauna Japonica, Ins. -Col. -Erotyl., 316pp., Academic Press of Japan, Tokyo.
- Chûjô, M. & M. T. Chûjô, 1988. A catalog of the Erotylidae (Insecta, Coleoptera) from the Old World (excl. the Ethiopian Region). *Esakia*, (26): 139-185.
- 1990. A catalog of the Erotylidae (Insecta, Coleoptera) from the Old World (excl. the Ethiopian Region) III. *Esakia*, (29): 1-67.
- Lee, Y. -1 st al., 1985, Insect fauna of Mt. Halla. *Rep. Acad. Surv., Hallasan (Mt.) Nat. Pres., Chejudo, Korea*: 404.
- Lewis, G., 1879. On certain new species of Coleoptera from Japan. *Ann. Mag. Nat. Hist.*, [5], 4(24): 459-467.
- Nakane, T., 1937. Notes on the distribution of two species of the beetles from Japan. *Konchû-sekai*, 41 (481): 356.
- 1961. New or little known Coleoptera from Japan and its adjacent regions, XV. *Fragm. Col., Tokyo, Japan*, (1): 1-6, 2 figs.
- 1981. New or little known Coleoptera from Japan and its adjacent regions, XXXIV. *Rep. Fac. Sci., Kagoshima Univ. (Earth Sci. & Biol.)*, (14): 43-53, 9 figs.
- Okamoto, H., 1924. The insect fauna of Querpert Island (Saishiu-to). *Bull. Agr. Exper. Stat. Gov. -Gener., Chosen*, 1(2): 159.
- Reitter, E., 1879. Verzeichniss der von H. Christoph in Ost-Sibiiien gesammelten Clavicornien etc. *Deutsche Ent. Zeitschr.*, 23(2): 209-226.
- 1887 (1888). *Bestimmungs-Tabellen der europäischen Coleopteren*, 16: Enthaltend die Familien Erotylidae und Cryptophagidae. *Verh. Naturf. Ver. Brünn*, 16: 3-56.
- Sasaji, H., 1985. In *Coleoptera of Japan in Color*, Hoikusha Co Ltd., Osaka, Japan, Vol. III, pp. 224, 226, 228 & 229, pl. 36, Fig. 29, Pl. 37, Figs 7 & 13.

Distribution of Chejudoen Erotylidae									
localities species	Chejudo Island	Mainland of Korea	Japan					Siberia	
			Hokkaido	Honshu	Shikoku	Kyushu	Tsushima Is.		Yakushima I.
Episcapha (E.) flavofasciata flavofasciata	X	X	X						X
Micropedinus tokioensis	X				X		X		
Cyrtotriplax (C. j) cenchris	X				X	X	x	x	x